COLORADO DEPARTMENT OF TRANSPORTATION
STAFF BRIDGE
BRIDGE DETAIL MANUAL

Chapter: Appendix A
Effective: January 2, 2009
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APPENDIX A - Abbreviations & Acronyms

## A(1) ABBREVIATIONS & ACRONYMS

The use of abbreviations and acronyms is generally discouraged unless required due to time or space limitations. If more than one abbreviation is shown in this appendix, the first abbreviation is currently preferred although the others are acceptable and have been used in the past. This list may not be inclusive. Where special abbreviations are used, a descriptive tabulation may be necessary and is allowed in the plan drawings.

Abbreviation or Acronym	<u>Meaning</u>
Symbols	
	at
&	and
[	channel (steel)
Φ , Ø	Diameter
0 / "	Degrees, Minutes, Seconds
, ,,	Feet, inches
#	
	pound or number
3R	Resurfacing, Restoration, Rehabilitation
8UN	8 thread series (screw thread)
E	Epoxy Coated Rebar
N	Non-Epoxy Coated Rebar
GXX	Girder Label
≤	Less than or Equal to
≥	Greater than or Equal to
A	
&	and
@	at
AAC	Aluminum Arch Culvert
AADT	Annual Average Daily Traffic
AAN	American Association of Nurserymen
AAR	Association of American Railroads (functions of the Communications and Signal Division merged into AREMA)
AASHO	American Association of State Highway Officials (defunct 1973, now known as AASHTO)
AASHTO	American Association of State Highway and Transportation Officials
ABS	Acrylonitrite-Butadiene-Styrene Pipe
Abt.	About
Abut.	Abutment
ACI	American Concrete Institute
ACM	Abestos Containing Materials
ADA	Americans with Disabilities Act
ADJ.	Adjust
ADT	Average Daily Traffic
AE	Architect-Engineer, Architecture, Engineering
AEC	Architecture, Engineering and Construction
AESC	American Engineering Standards Committee (defunct, now known as ANSI)
AGA	American Gas Association
AGC	Associated General Contractors of America

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Abbreviation or Acronym	Meaning
AGCMAQCM	Air Quality Congestion Mitigation
AH, A.H., Ah.	Ahead
AI	Asphalt Institute
AIA	American Institute of Architects
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
Alt.	Alternate
ANSI	American National Standards Institute, Inc. (formerly
ANSI	USASI, ASA and AESC)
API	American Petroleum Institute
APL	Approved Products List
Approx.	Approximate
APWA	American Public Works Association
AQCC	Air Quality Control Commission
ARA	American Railway Association (merged into Association of American Railroads)
ARBBA	American Railway Bridge and Building Assocation (merged into AREMA)
	Additional Requested Element (Design/Build
ARE	Terminology)
AREA	American Railway Engineering Association (merged into AREMA)
AREMA	American Railway Engineering & Maintenance-of-Way Association
ARTBA	American Road and Transportation Builders Association
AS, A.S.	Ahead Station
ASA	American Standards Association (defunct, now known as ANSI)
ASBI	American Segmental Bridge Institute
ASCE	American Society of Civil Engineers
ASD	Allowable Stress Design
ASLA	American Society of Landscape Architects
ASME	American Society of Mechanical Engineers
ASOP	American Society of Photogrammetry
ASSE	American Society of Sanitary Engineering, American
	Society of Safety Engineers
Asst.	Assistant
ASTM	American Society for Testing and Materials
ATSSA	American Traffic Safety Services Association
AUTS	Actual Ultimate Tensile Strength
Ave.	Avenue
AWG	American Wire Gauge
AWPA	American Wood Protection Association, formerly American Wood Preservers' Association
AWS	American Welding Society
AWWA	American Water Works Association
В	1
B to B	Back to Back
B.E.I.	By Equal Increments
B.M.	Bench mark
B.P.F.	Blows Per Foot
B/	Bottom of
BAFO	Best and Final Offer
Bbl.	Barrels
BC, B.C.	Bolt Circle
Beq.	Begin

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Abbreviation or Acronym	Meaning
BK, B.K., Bk.	Back
Bldg.	Building
BLM	Bureau of Land Management
Blvd.	Boulevard
	Quantities of Structure Backfill (Class 1) without
$BM_{_1}$	Shoring
D14	Quantities of Structure Backfill (Class 1) with
$BM_2$	Shoring
BMP	Best Management Practice
Bms.	Beams
BNSF	Burlington Northern & Santa Fe Railroad
Bott., Bot.	Bottom
BP	Maximum Required Allowable Bearing Pressure
BPO	Business Programs Office (CDOT)
BR, Br.	Bridge On-System Program, Bridge
Brg.	Bearing
BRO	Bridge Off-System Program
BS, B.S.	Back Station
BT, B.T.	Beginning of Transition
Btm.	Bottom
Btwn.	Between
С	
CL CL	Centerline
	channel (steel)
C&G	Curb and Gutter
	Colorado Revised Statutes, as amended. "43-1-225,
C.R.S.	C.R.S." means "\$ 225, Article 1 of Title 43, C.R.S.,
	as amended."
CA	Concrete Arch
CAC	Concrete Arch Culvert
CAD	Computer Aided Design or Computer Aided Drafting
CADD	Computer Aided Design and Drafting
CatEx	Categorical Exclusion
CBC	Concrete Box Culvert
CBG	Concrete Box Girder
CBGC	Concrete Box Girder Continuous
CBGCP	Concrete Box Girder Continuous Prestressed
CBGP	Concrete Box Girder Prestressed
CBGS	Concrete Box Girder Segmented
CCA	Colorado Contractors Association
CCP	Construction Cost Index Code of Colorado Regulations, as amended
CDOT	
CDOT CDPHE	Colorado Department of Transportation  Colorado Department of Public Health and Environment
CDTPG	
CE	Concrete Double-Tee Prestressed Girder
CF, Cu. Ft.	Construction Engineering Cubic Feet
CFR	Code of Federal Regulations
CFS	Cubic Feet Per Second
CFS, C.F.S.	Cubic Feet per second  Cubic Feet per second
CG, C.G.	Center of Gravity
CHP	Colorado Highway Datrol
CUL	Colorado Highway Patrol Cast Iron, Concrete on Rolled I-Beam
CT C T	
CI, C.I.	
CIC	Concrete on Rolled I-Beam Continuous

Abbreviation or Acronym	Meaning
CIK	Concrete on Rolled I-Beam Composite
CIKP	Concrete on Rolled I-Beam Composite Prestressed
CIOG, C.I.O.G.	Cast Iron Ogee (Washer)
CIP, C.I.P.	Cast-in-Place, Cost in Place
CL., Clr.	Clear
cm	Centimeters
CM, C.M.	Corrugated Metal
CMAQ	Congestion Mitigation Air Quality
CMO	Contract Modification Order
CMP, C.M.P.	Corrugated Metal Pipe
CMS	Changeable Message Sign
CMU	Concrete Masonry Unit
COFRS	Colorado Financial Reporting System
Col.	Column
Comp.	Composite
Con.	Connection
Conc.	Concrete
Conn.	Connection
Const.	Construction
Const. Jt.	Construction Joint
Cont.	Continuous
Corr.	Corrugated
Cov.	Cover
CP	Colorado Procedure
CPE	Corrugated Polyethylene Pipe
CPG	Concrete Prestressed Girder (Precast)
CPGC	Concrete Prestressed Girder Continuous (Precast)
CP-L	Colorado Procedure - Laboratory
CPM	Critical Path Method
CPT	Corrugated Polyethylene Tubing
CR	County Road
CRF	Concrete Rigid Frame
CRS	Colorado Revised Statutes, 1973, as amended
CRSI	Concrete Reinforcing Steel Institute
CS, C.S.	Curve to Spiral, Commercial Standard, Concrete Slab
CSC	Concrete Slab Continuous
CSG	Concrete Slab & Girder (Poured in Place)
CSGC	Concrete Slab & Girder Continuous (Poured in Place)
CSGCP	Concrete Slab & Girder Continuous Prestressed (Poured in Place)
CSGP	Concrete Slab & Girder Prestressed (Poured in Place)
Csk.	Countersunk
CSL	Cross Sonic Log
CSP	Corrugated Steel Pipe, Concrete Slab Prestressed
CSPC	Concrete Slab Prestressed Continuous
CTR	Certified Test Reports
Ctr.	Center Center
CY, Cu. Yd., c.y.	Cubic Yards
<b>D</b>	
D	Degree of Curvature, Depth, Density, Distance, Diameter
D/B	Design Build
DAS, D.A.S.	Deformed Anchor Stud
dB	decibels
DBA	Deformed Bar Anchor
DBE	Disadvantaged Business Enterprise
Dbl.	Double

Abbreviation or Acronym	Meaning
Deg.,°	Degrees (Angular)
Deg., °F., °C.,	Degrees (Thermal) - Degrees Fahrenheit, Degrees Celsius
DEIS	Draft Environmental Impact Statement
Dept.	Department
DGN, Dgn.	Design, Microstation Drawing, Design
DH	Design Height (or, Avg. height for qty. calculations)
DHV	Design Hour Volume
DHW	Design High Water
DI, D.I.	Ductile Iron
Dia., $\Phi$ , $\emptyset$ , $\Phi$ , $\emptyset$	Diameter
Dist.	District
Div.	Division
DMS	Dynamic Message Sign
DNR	Department of Natural Resources
DOR	Design Office Review
DOW	Division of Wildlife (Colorado)
DPA DRCOG	Department of Personnel & Administration Denver Regional Council of Governments
DS, D.S.	Down Station
DSR DSR	Design Scoping Review
DTD	Division of Transportation Development (CDOT)
DTM	Digital Terrain Model
Dwg.	AutoCAD Drawing, Sheet
<b>E</b>	nacon braning, sheet
(E)	Epoxy Coated Rebar
E to E	End to End
e.g.	Exempli Gratia (For Example)
E/A	Engineer and/or Architect
EA	Environmental Assessment
Ea., EA	Each
EB, E.B.	Eastbound
ECR	Epoxy Coated Rebar
EEO	Equal Employment Opportunity
EF, E.F.	Each Face
EIA	Electronic Industries Alliance (formerly Electronic Industries Association)
EIS	Environmental Impact Statement
El., EL, Elev.	Elevation
Elast.	Elastomeric
Elect. Cond.	Electrical Conduit
EM,	Quantity of Structure Excavation without Shoring
EM <sub>2</sub>	Quantity of Structure Excavation with Shoring
Engr., Engr.	Engineer
EPA	Environmental Protection Agency
EPDM	Eethylene Propylene Ddiene Monomer-class rubber
Eq.	Equal
ESAL	Equivalent Single Axle Load  Emerging Small Business
ESB Est.	Estimate Estimate
ET, E.T.	Ending of Transition
EVT	Event Point (InRoads Terminology)
EW, E.W.	Each Way
Ex, E	Expansion Bearing
Ex.	Example, Except
Exc., Excav.	Excavation
LAC., EACAV.	TACG V G C T O I I

Abbreviation or Acronym	Meaning
Exist.	Existing
Exp	Non-guided (free floating) expansion bearing
Exp. Jt.	Expansion Joint
Expn., Exp'n	Expansion
Ext.	Exterior
	Excellor
F	
F to F	Face to Face
F.A.P., FAP	Federal Aid Project
F.L.	Flow Line
FAA	Federal Aviation Administration
FAPG	Federal Aid Policy Guide
FCM	Fracture Critical Member
Fdn.	Foundation
Fed.	Federal
FEMA	Federal Emergency Management Agency
FES	Flared End Section
FF, F.F.	Far Face, Front Face
FFBW, F.F.B.W.	Front Face of Backwall
FHWA	Federal Highway Administration
Fig.	Figure
Fin.	Finished
FIPI	Finding-in-the-Public-Interest
FIPI	Finding-in-the-Public-Interest
FIR	Field Inspection Review
Fl.	Floor
Flg.	Flange
FM	Factory Mutual
FMV	Fair Market Value
FONSI	Finding of No Significant Impact
FOR	Final Office Review
fpm, F.P.M.	Feet Per Minute
Fps, F.P.S., FPS	Feet Per Second
FRA	Federal Railroad Administration
Freq.	Frequency
FRP	Fiber Reinforced Polymer
FS, F.S.	Planned Finish Surface
FSS	Federal Specifications and Standards
FT, Ft., ft	Feet
Ft. Kip.	Foot Kips
Ft. Lb., FT LB	Foot Pounds
FTA	Federal Transit Administration
Ftg.	Footing
FTP	File Transfer Protocol
Fut.	Future
Fx, F	Fixed Bearing
G	
Ga.	Gage, Gauge
Gal.	Gallons
Galv.	Galvanized
Gd Gd	Guided expansion bearing
GEIA	Government Electronics and Information Technology Group (ITAA)
GIP	Galvanized Iron Pipe
Gird., Gir., Grd, Gr,	
G G G G G G G G G G G G G G G G G G G	Girder
GIS	Geographical Information System
GL	Girt Line

Abbreviation or	Waaning.
Acronym	<u>Meaning</u>
GPM	Gallons Per Minute
GPS	Global Positioning System
GRI	Geosynthetic Research Institute
GRS	Geosynthetic Reinforced Soil
GSI	Geosynthetic Institute
	Guaranteed Ultimate Tensile Strength (replaced by AUTS
GUTS	& MUTS)
H	
Н	Depth of Excavation at Wall Layout Line
HAS, H.A.S.	Headed Anchor Stud
HAZMAT	Hazardous Materials
HBP	Hot Bituminous Pavement
HC	Horizontal Clearance
HCL, H.C.L.	Horizontal Control Line
HCM	Highway Capacity Manual
HD, Hd.	Head
HDPE	High Density Polyethylene
HDPP	High Density Polypropylene
HES	Hazard Elimination System
Hex. Hd.	Hexagonal Head
HID	High Intensity Discharge (Lamps)
HLMR	Highload Multi-Rotational
HMA	Hot Mix Asphalt
Horz., Horiz., Hor.	Horizontal
HOV	High-Occupancy Vehicle
HP	H pile
HP	Horsepower
HPC	High Performance Concrete
HS Bolt, H.S. Bolt	High Strength Bolt
HS, H.S.	High Strength
HS, H.S.HSC	High Strength Concrete
Ht.	Height
HTF	Highway Trust Fund (Federal)
HUTF	Highway Users Tax Fund (State)
HW, H.W.	High Water
Hwy.	Highway
Hyd.	Hydraulic
I	
I	I beam or Wide Flange section (steel), Interstate
ICEA	Insulated Cable Engineers Association, formerly IPCEA
ID, I.D.	Inside Diameter
IEEE	Institute of Electrical and Electronics Engineers
IES	Illuminating Engineering Society
IGA	Inter-Governmental Agreement
IMP	Incident Management Plan
IMSA	International Municipal Signal Association
In. Kips	Inch Kips
In. Lb.	Inch Pounds
In., IN	Inches
Incl., Inc.	Included
Insp.	Inspector
Int.	Interior
Inv.	Invert
IP	Iron Pipe
	Insulated Power Cable Engineers Association (defunct,
IPCEA	currently known as ICEA)
IRI	International Roughness Index
	1

Abbreviation or	
Acronym	<u>Meaning</u>
IRIS	Inventory Road Information System
ISA	Initial Site Assessment
ISO	International Organization for Standards
ISP	Information or Internet Service Provider
ISTEA	Intermodal Surface Transporation Efficiency Act
ITAA	Information Technology Association of America
ITE	Institute of Transportation Engineers
ITS	Intelligent Transportation System
IVHS	Intelligent Vehicle Highway System
J	
J, JB	Junction Box
JBC	Joint Budget Committee
Jct.	Junction
Jt., jt.	Joint
K	
kips, Kip	Kilo Pounds, Thousand Pounds
ksf	kips per square foot
ksi	Kips per square inch
KW	Kilowatt
L	
<b></b>	
L <b>, L</b>	Length, Angle(steel)
LA	Local Agency
Lac.	Lacing
LAN	Local Area Network
LB, Lb., lb	Pounds
lb./ft.	pound per foot
Lb/sy	Pounds per square yard
lb-ft.	pound foot
LED	Light Emitting Diode
LEED	Leadership in Energy and Environmental Design
LF, Lin. Ft.	Linear Feet
LFD	Load Factor Design
LLDPE	Linear Low-Density Polyethylene
LRFD	Load and Resistance Factor Design
LS, L.S.	Lump Sum, Length of Spiral
Lt.	Left
LTDS	Required Long Term Design Strength
Lum.	Luminaire
M	
m	Meters
MPH	Miles Per Hour
M M	Mass
Maint.	Maintenance
MARV	Minimum Average Roll Value
Matl.	Material
Max., max.	Maximum
MBTA	Migratory Bird Treaty Act
MCR	Minor Contract Revision
MD	Machine Direction
MFBM, M.F.B.M.	Thousand Foot Board Measure
Mfg.	Manufactured, Manufacturer
MHT	Method of Handling Traffic
Mi.	Mile
MIL	Military Specification
Min., min.	Minimum
	ATTITUMEN .

Abbreviation or	Mooning
Acronym	<u>Meaning</u>
Misc.	Miscellaneous
mm	Millimeters
MMIS	Maintenance Management Information System
MMP	Materials Management Plan
MMS	Maintenance Management System
MOA	Memorandum of Agreement
Mobl.	Mobilization
MOSS	Modeling of Surfaces and Strings
MOT	Maintenance of Traffic
MOU	Memorandum of Understanding
MP, M.P.	Milepost
MPH, M.P.H.	Miles Per Hour
MPO	Metropolitan Planning Organization
MRS	Quantity of Mechanical Reinforcement for precribed Soil zone
MSE	Mechanically Stabilized Earth
MSEW	Mechanically Stabilized Earth Wall
	Manufacturers Standardization Society of the Valve and
MSS	Fitting Industry
MTIP	Materials Testing and Inspection Plan
MUTCD	Manual on Uniform Traffic Control Devices
MUTS	Minimum Ultimate Tensile Strength
N	
	Non-Epoxy Coated Rebar
NAD	North American Datum
NAVD	North American Vertical Datum
NB, N.B.	Northbound, Total Number of Blocks
NBIS	National Bridge Inspection Standards
NBS	National Bureau of Standards
NC	Uniform National Coarse (screw thread)
NCHRP	National Cooperative Highway Research Program
NCR	Nonconformance Report
NEC	National Electrical Code
NECA	National Electrical Contractors Association
NEMA	National Electrical Manufacturers Association
NEPA	National Environmental Policy Act
NESC	National Electric Safety Code
NF, N.F.	Near Face, Uniform National Fine (screw thread)
NFPA	National Fire Protection Association
NFRT&AOPC	North Front Range Transportation & Air Quality
~	Planning Council
NGS	National Geodetic Survey
NGVD	National Geodetic Vertical Datum of 1929
NHI	National Highway Institute
NHS	National Highway System
NIC, N.I.C.	Not in Contract
NIP, N.I.P.	Nail in Place
NIST No.	National Institute of Standards and Technology  Number
NOAA	National Oceanic and Atmospheric Administration
Nom.	Nominal Nominal
NPDES	National Pollutant Discharge Elimination System
NPT	National Pipe Thread
NS, N.S.	Near Side
NSC	Normal Strength Concrete
	NSF International, formerly National Sanitation
NSF	Foundation
NTCIP	National Transportation Communications for ITS
	•

Abbreviation or	Meaning
<u>Acronym</u>	Protocol
NTP	Notice to Proceed
NTS, N.T.S.	Not to Scale
NWN	Nonconforming Work Notice
INVVIN	Noncompositing work Notice
0	
oc, o.c.	On Center
OD, O.D.	Outside Diameter
OFMB	Office of Financial Management and Budget
OG, O.G.	Original Ground
OJT	On-the-Job Trainee or On-the-Job Training
OP	Overhead Pipe
Opp. Hand	Opposite Hand
OSHA	Occupational Health and Safety Administration
Oz.	Ounces
P	
#	pound or number
PACOG	Pueblo Area Council of Governments
PC, P.C.	Point of Curve
PCA	Portland Cement Association
PCBC	Concrete Box Culvert Precast
PCC, P.C.C.	Point of Compound Curve
PCCP	Portland Concrete Cement Pavement
PCI	Precast/Prestressed Concrete Institute
PCO	Potential Change Order
PCP	Product Control Plan
PD	Procedural or Policy Directive
PDA	Pile Driving Analyzer
PE	Preliminary Engineering, Professional Engineer, Permanent Easement
PG	Profile Grade, Performance Grade
PGL	Profile Grade Line
PGL, P.G.L.	Profile Grade Line
PI, P.I.	Point of Intersection
PICS	Project Item Coding System (replaced by Inroads Survey)
PIP	Public Information Plan
PL, PL., Pl.	Plate
PLS	Professional Land Surveyor
PM	Project Manager
POC, P.O.C.	Point on Curve
POSS, P.O.S.S.	Point of Slope Selection
POT, P.O.T.	Point on Tangent
PPACG	Pikes Peak Area Council of Governments
PPE	Personal Protective Equipment
PPPP	Project Priority Programming Process
PS&E, P.S.& E.	Plans, Specification and Estimate
PS, P.S.	Planned Subgrade
PRC, P.R.C.	Point of Reverse Curve
Prin.	Principle
Proj.	Project, Projection
ProMIS	Project Management Information System
Prov.	Provisions
PSC	Prestressed Concrete
PS&E	Plans, Specifications and Estimate
psf	pounds per square foot
PSI	Preliminary Site Investigation

Abbreviation or Acronym	Meaning		
psi, P.S.I.	Pounds per square inch		
PSIG	Pounds Per Square Inch Gauge		
PT, P.T.	Point of Tangent		
PTFE	Polytetrafluoroethylene		
PTI	Post-Tensioning Institute		
PUC	Public Utilities Commission		
PVC	Poly Vinyl Chloride (pipe), Point of Vertical Curve		
PVI	Point of Vertical Intersection		
Pvmt.	Pavement		
PVT	Point of Vertical Tangency		
Q			
Q	Peak Discharge or Flow Volume		
QA	Quality Assurance		
QC	Quality Control		
QMP <b>R</b>	Quality Management Plan (Design/Build Terminology)		
R, R., Rad.	Radius		
RA	Rubble Arch		
RAC	Rubble Arch Culvert		
rad	radians		
RC, R.C.	Reinforced Concrete, Reverse Crown		
RCO	Request for Change Order		
RCP, R.C.P.	Reinforced Concrete Pipe, Request for Change Proposal		
RCPC	Reinforced Concrete Pipe Culvert		
RCRA	Resource Conservation and Recovery Act		
Rdwy.	Roadway		
RE	Resident Engineer, Railroad Easement, Reinforced Earth		
Ref.	Reference		
Reinf.	Reinforcing		
Rem.	Remove, Removal		
Repl.	Replace		
Req., Req'd, Reqd.	Required		
Rev.	Revised, Revision		
RFC	Released for Construction		
RFP	Request for Proposals		
RFQ	Request for Qualifications		
RG	Riveted Plate Girder		
RGC	Riveted Plate Girder Continuous		
RHM	Recognized Hazardous Materials		
RL	Reinforcement Length		
RME	Region Materials Engineer		
RMWA	Roadmasters and Maintenance of Way Association (merged into AREMA)		
ROD	Record of Decision		
ROW, R.O.W., R/W, RW	Right of Way		
RPC	Region Planning Commission		
RPM, rpm	Revolutions Per Minute		
RSC	Rigid Steel Conduit		
RSS	Reinforced Soil Slope		
Rt.	Right		
RTD	Region Transportation Director		
RWIS	Road Weather Information System		
S			
Sect.	Section		
S	Tributary reinforcement spacing for MSE walls		
SA	Steel Arch		

Abbrossiation or		
Abbreviation or	Meaning	
<u>Acronym</u>		
SAC	Steel Arch Culvert	
SAE	Society of Automotive Engineers	
San.	Sanitary Samula Amalusia Dlan	
SAP	Sample Analysis Plan	
SB, S.B.	Southbound	
SBA	Small Business Administration	
SBG	Steel Box Girder	
SBGC	Steel Box Girder Continuous	
SC, S.C.	Spiral to Curve	
Sch.	Schedule	
SCS, S.C.S	Spiral Curve Spiral	
SDG	Steel Deck Girder	
SDGC	Steel Deck Girder with Floor Beam System	
SDGCK	Steel Deck Girder Continuous & Composite	
SDI	Steel Decks Institute or Steel Door Institute	
SDT	Steel Deck Truss	
Sec., Sect.	Section	
SF, Sq. Ft.	Square Feet	
SH	State Highway	
Shldr.	Shoulder	
SHPO	State Historic Preservation Office	
Sht.	Sheet	
SIA, SI&A	Structural Inventory & Appraisal	
SIC	Standard Industrial Code	
SIGN	Overhead Sign	
SIGNB	Overhead Sign-Butterfly	
SIGNC	Overhead Sign-Cantilever	
SIGND	Overhead Sign + Cantilever	
Sim.	Similar	
SIP, S.I.P.	Stay in Place	
SJI	Steel Joists Institute	
SLT	Steel Low Truss	
SLWK., Sdwk	Sidewalk	
SMA	Stone Matrix Asphalt	
SMACNA	Sheet Metal and Air Conditioning Contractors' National	
	Association	
SME	Subject Matter Expert	
SMP	Safety Management Plan	
SMSE	Shored Mechanically Stabilized Earth	
SOQ	Statement of Qualification	
Spa.	Spaces or Spaced	
Specs.	Specifications	
Spl.	Splice	
Sq. In.	Square Inches	
Sq. Mi.	Square Miles	
Sq., Sqr.	Square	
SRW	Segmental Retaining Walls	
SSE	Steel Stringer-Earth Filled	
SSM	Steel Stringer-Metal Plank Deck	
SSMC	Steel Stringer-Metal Plank Deck Continuous	
SSPC	Society for Protective Coatings, formerly Steel Structures Painting Council	
SSS	Steel Stringer-Timber Deck	
SSSC	Steel Stringer-Timber Deck Continuous	
ST, S.T.	Spiral to Tangent	
St.	Straight, Street	
STA, Sta.	Station State	
STAC	Statewide Transportation Advisory Committee	
Std.	Standard	
204.	1 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	

Abbreviation or	Waanin.	
Acronym	<u>Meaning</u>	
STG	Steel Thru Girder	
STIP	Statewide Transportation Improvement Program	
STP	Surface Transportation Program	
Str.	Structure, Structural	
STT	Steel Thru Truss	
SUSP	Suspension Bridge	
SWMP	Stormwater Management Plan	
SY, Sq. Yd.	Square Yards	
Symm.	Symmetrical	
T		
T		
T&B	Top and Bottom	
T&E	Threatened & Endangered Species	
Т.	Tons	
TAS, T.A.S.	Threaded Anchor Stud	
TBC	Timber Box Culvert	
TC, T.C.	Tangent to Curve	
TCC	Traffic Communications Center	
TCP	Traffic Control Plan	
TD	Timber Stringer (Untreated) Concrete Deck	
TDH	Total Dynamic Head	
TE	Transportation Enhancement funding	
TEA-21	Transportation Efficiency Act for the 21st Century	
Temp.	Temporary, Temperature	
Thd.	Thread	
THHN	Thermoplastic High Heat-resistant Nylon coated	
1111111	(Insulation designation for wire)	
THWN	Thermoplastic High Water-resistant Nylon coated	
	(Insulation designation for wire)	
TIG	Tungsten Inert Gas (Welding)	
TIP	Transportation Improvement Program	
TLA	Timber Laminated Arch (Gluelam)	
TLS	Timber Laminated Stringer(Gluelam)	
TLT	Timber Low Truss	
TM	Timber Stringer (Untreated) Metal Deck	
TMOSS	Terrain Modeling Survey System	
TOC	Traffic Operations Center	
Tot.	Total	
TPI	Threads per Inch	
TPR	Transportation Planning Region	
TRB	Transportation Research Board	
TS, T.S.	Tangent to Spiral, Timber Stringer (Untreated) Timber Deck	
TSLAB	Timber Slab	
TTC	Timber Culvert	
TTD	Timber Curvert  Timber Stringer-Concrete Deck	
TTM	Timber Stringer-Concrete Deck  Timber Stringer- Metal Deck	
TTS	Timber Stringer Timber Deck	
TTT	Timber Thru Truss	
TUNC	Tunnel-Concrete Lined	
TUNR	Tunnel-Thru Rock-No Lining	
Typ.	Typical	
	1101001	
Ŭ		
UDBE	Underutilized Disadvantaged Business Enterprises	
UG	Underground	
UL	Underwriters Laboratories, Inc.	
UMTA	Urban Mass Transportation Administration	
UNC	Uniform National Coarse (screw thread)	
0110	1 ourrorm macronar course (sorem cureau)	

8UN       8         UNF       Ur         UNO       Ur         UON       Ur         UPRR       Ur         UPS       Ur         US, U.S.       Ur         USACE       Ur         USASI       Ur         USCS       Ur         USDA       Ur         USDOT       Ur         USFWS       Ur         USGSC       Ur         USGS       Ur         UV       Ur         UV       Ur         VC, V.C.       Vr         VE       Vr         VE       Vr         VECP       Vr         Vert.       Vr         VMS       Vr         VMT       Vr         VPC       Vr         VPI       Vr         VPT       Vr         WALL       Re         WASHTO       Wr	cility Notification Center of Colorado thread series (screw thread) niform National Fine (screw thread) nless Noted Otherwise nless Otherwise Noted nion Pacific Railroad ninterruptible Power Supply postation, United States nited States Army Corp of Engineers nited States of America Standards Institute (defunct, now known as ANSI) nited States Code nified Soil Classification System S.S. Department of Agriculture S.S. Department of Transportation S.S. Fish and Wildlife Service nited States Green Building Council S Geological Survey cility, Utilities ttraviolet  Pertical Curve ttrified Clay Pipe nlue Engineering nalue Engineering Change Proposal chicle pertical mriable Message Sign (also known as DMS) chicle Miles TraveledO		
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I W B . W . B . I W E	estbound		
	ork Breakdown Structure		
	ide Flange (Steel section)		
	Welded Girder		
	elded Girder Continuous		
	Welded Girder Continuous & Composite		
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•	Work Point		
	Works Projects Administration (formerly Works Progress Administration, (defunct as of 1943)		
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	ater Ouality Control Division (Colorado Department of		
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Abbreviation or Acronym	<u>Meaning</u>
	gauge wire for crack control
WWR	Welded Wire Reinforcement
X	
XD	Cross Machine Direction
Y	
Yd.	Yard